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MONTANA DEPARTMENT OF HEALTH
AND ENVIRONMENTAL SCIENCES

Monthly Activities Report
of the Air Quality Bureau

November, 1979

1. Highlights:

The Board of Health met November 16 to consider the application for renewal of the Anaconda Aluminum variance. The Board will not make a final decision on the application until the January 11-12, 1980, Board meeting.

A new employee was hired for the position of Supervisor, Air Monitoring Section.

A bureau employee attended a meeting in Washington D.C. to present Montana's Prevention of Significant Deterioration policies at a national meeting.

2. Ambient Air Quality Network:

a. Standards Exceeded:

SO_2 near East Helena - Broudy, East Station, McDonald's - no violations

b. Air Stagnation Advisories:

November 7 through November 8
November 12 through November 16
November 20 through November 22
November 23 through November 24
November 28 through December 2

Open burning restrictions were in effect as follows:

November 1 - Airshed 2-6 below 5000 feet MSL
November 7 - airshed 1-8 all elevations
November 8 - Airshed 1-5 all elevations, 6, 7 and 8 below 6000 feet MSL
November 9 - Airshed 1 below 5000 feet MSL
November 13 - Airshed 1-4 below 5000 feet MSL
November 14 - Airshed 1-5 all elevations, 6,7, 8A below 6000 feet MSL
November 15 - Airshed 1-5 all elevations, 6 and 8A all elevations
November 16 - Airsheds 1-8A all elevations
November 20 - Airsheds 1-4 below 5000 feet MSL
November 21 - Airsheds 1-5 all elevations, 6,7 and 8 below 6000 feet MSL
November 22 -Airsheds 1-6, and 8A all elevations
November 24 - Airsheds 1-6 and 8A below 6000 feet MSL
November 29 - Airsheds 1-5 all elevations, 6 and 8A below 6000 feet MSL
November 30 - Airsheds 1-6 and 8A, all elevations

C. Laboratory Status

Total Samples for Month	402
Total Determinations for Month	2096

3. Permits and Tax Credits:

a. Construction permits, applied for

Empire Sand & Gravel, Madison, Gallatin Cos., gravel crushers
American Asphalt Co., Flathead Co., asphalt plant
ASARCO-Troy, Lincoln Co., gravel crusher
Reeves, Inc., Big Horn Co., gravel crusher
Anaconda Co, Anaconda, composit compliance program

Permit applications, approved

Halliburton Services, Dawson Co., bulk cement handling and blending facility
Montana Dept. of Highways, Garfield Co., hot mix batch plant
Baltrusch Construction, Hill Co., gravel crusher

4. Variance Status:

Current

ASARCO, rule 16-2.14(1)- S1470(2), Sulfur Oxide emissions applicable to lead-zinc complex, final compliance due June 30, 1980

Berg Lumber, rule 16-2.14(1)-S1490, Open Burning, final compliance date June, 1980

The Anaconda Co., application for variance from sulfur oxide emissions, schedule for hearing at November 16 Board hearing was postponed until January Board meeting because legal notice was not made in newspaper

Anaconda Aluminum, application for variance from fluoride emissions, hearing held at November Board meeting, final action postponed until January 11-12 Board meeting

5. Enforcement Actions:

a. Citations

American Chemet Corp. East Helena, MT 571121-SS-1, Incinerator in violation of rule 16-2.14(1)-S1420(3) Incinerators

b. Notice of Violation and Order to Take Corrective Action

Exxon Refinery, Billings, MT - revision, coke handling and loading facility in violation of rule 16-2.14(1)-S1440(1)-Visible Emission Restructions final compliance due July 1, 1980

6. Tepee Burner and Open Burning:

No. of tepee burners presently in operation - 20

Open Burning Permits Issued:

Kalispell Office	288	Sanders County	unavailable
Cascade County	15	Yellowstone County	8
Lake County	80	Rest of State	522
Missoula County	39	Total	952

7. Source Tests Performed:

   a. Agency Source Tests - None

   b. Non-Agency Source Tests - No results in November

8. Field Investigations:

Brand S Lumber, Livingston, routine inspection
Willow Creek Lumber, Livingston, routine inspection
Park Lumber, Livingston, routine inspection
Burkland Studs, Livingston, routine inspection
American Chemet, East Helena, citation issued
American Asphalt, Kalispell, routine inspection
Plum Creek-Evergreen, Kalispell, routine inspection
Louisiana-Pacific, Columbia Falls, routine inspection
Stoltze Land & Lumber, Columbia Falls, routine inspection
Klinger Lumber, Kalispell, routine inspection
Kal-Mont, Kalispell, routine inspection
Ksanka Lumber, Fortine, routine inspection
Kennedy-Stevens, Eureka, routine inspection
Thompson Falls Lumber, Thompson Falls, routine inspection
Flodin Lumber, Thompson Falls, routine inspection
Louisiana Pacific, Trout Creek, routine inspection
Ford-Cripe, Troy, routine inspection
Burlington Northern tracks, Troy, open burning violation
Northwestern Cedar, St. Regis, routine inspection
Idaho Cedar, Superior, routine inspection
Holly Sugar, Sidney, inspection
Great Western Sugar, Billings, inspection
Montana Dakota Utilities, Lewis and Clark Station, Sidney, inspection
Montana Dakota Utilities, new Glendive peaking plant, inspection
Hilde Construction, Big Horn Co., hot mix-crusher, inspection
Dept. of Highways, Big Horn Co., hot mix plant, inspection
Peter Kiewit Sons, Big Horn Co., gravel crusher, inspection
Salveson Construction, Big Horn Co., hot mix plant, inspection
Westmoreland Resources, Absaloka Mine, inspection
Kiewit-Consol Mines, Decker, monitoring sites
Buttreys, Glendive, incinerator, inspection
Montana Dakota Utilities, office, Glendive, incinerator, inspection
Safeways, Glendive and Sidney, incinerators, inspection
Community Memorial Hospital, Sidney, incinerator, inspection
Glendive Community Hospital, Glendive, incinerator, inspection
Roosevelt Memorial Hospital, Culbertson, incinerator, inspection
Culbertson gas plant, inspection
Fairview, gas plant, inspection
Richland County, gas plant, inspection
Sioux Pass, gas plant, inspection
Stateline, gas plant, inspection
Mon-Dak, gas plant, inspection

9. Complaints:

Anaconda Co., Nye, tailings dust, investigation
Wood stoves, Helena, smoke, informed of study presently taking place
ASARCO, East Helena, haze, investigation
Champion Timberlands, Missoula, burning slash, referred to Monitoring Section
Cenex, Laurel, odor. investigation

10. Data Processing Services:

Ambient Data Summary - attached for month of October

Emission Inventory Status: Approximately 1-12 plant updates were run on the dummy program; errors presently being corrected

Prevention of Significant Deterioration - no activity

Modeling - no activities

11. Environmental Impact Statements:

A. Other Agency Statements: Commented on three statements for the Highway Department.

B. Agency Statements: The final EIS on the ambient air quality standards study will be printed in January, 1980.

12. Status of Studies, Contracts and Reports:

Draft interim report for DESPUR was received from Olsen-Elliott for comment.
MAPS reports "A Study of Feasibility of Performing an Inventory of Historical Emissions at Butte and Anaconda, Montana" and Update and Improvement of Emission Inventory for MAPS Study Areas" were printed and mailed to interested persons
The Data Systems report for MAPS was sent to the printer
The Annual Data Summary of Air Quality for 1978 was printed and mailed out
The Flathead River Report was mailed out

13. Schools and Training:

Symposium on Wood Utilization, University of Montana, Missoula
EPA training course on AQDHS, Nashville, Tennessee
Two new state employees attended an orientation session for Montana government

14. Public Hearings and Meetings:

a. Public Hearings

Board of Health meeting November 16, 1979 to consider Anaconda Aluminum variance request

One bureau employee testified at public hearing on U.S. Senate Bill 1996 hearing in Missoula

14. b. Meetings attended:

Geomet, Tepee burner study, Helena
Flathead Emission Inventory, Helena
State Airshed group, Missoula
EPA, Federal Highway, Dept. of Highway, intergovernment consultation, Helena
Great Falls Planning Board, CO designation, Great Falls
Missoula Health and Planning, model contract, Missoula
Louisiana Pacific office conference regarding Notice of Violation, Helena
PNWIS Meeting, Edmonton, Alberta
National Academy of Science, Washington, D.C. to present PSD paper

c. Intra-staff meetings

Section meeting
Staff meetings
Ambient standards meeting

15. Public Information Requests:

Sent out three MAPS reports
Sent out the Flathead River Report
Annual data summary sent out

MONTANA DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES

MONTHLY SUMMARY OF AIR QUALITY DATA

October 1979

Pollutant: Total Suspended Particulate Units: micrograms/m^3

AQCR	Site Location	HIGH READING: Current Month	Year-to-Date	Running Year	ARITHMETIC AVER.: Year-to-Date	No. of Mons. of Data	Comments
140	Morton-Oecker						
	BigHorn Co. Warren Ranch	26	129	129	43	10	
	BigHorn Co. KGHL	32	113	113	32	9	
	Billings City Hall	97	130	130	49	10	
	Billings Grand Ave. School	123	288	288	83	9	
	Billings Central Park	108	302	302	78	10	
	Billings Laurel Jr. High	143	266	266	87	10	
	Laurel	81	90	90	46	5	
141	Hospital Roof						
	Great Falls Fire Sta. #1	90	90	90	46	5	
	Great Falls Kiwanis Park	101	189	189	82	5	
	Great Falls	94	111	111	50	10	
142	Hiway Jct.						
	Anaconda Lincoln School	63	86	86	44	10	
	Anaconda Floral Park	161	303	303	57	10	1 exc. Fed. Sec. Std.
	Butte Tmphagen Hall	79	112	112	56	10	
	Bozeman	93	106	106	44	10	

Pollutant: Total Suspended Particulate Units: micrograms/m^3

AQCR	Site Location	HIGH READING: Current Month	Year-to-Date	Running Year	ARITHMETIC AVER.: Year-to-Date	No. of Mons. of Data	Comments
142	Dr. Canty Res.						
	Granite Co. Greeley School	133	181	181	74	10	
	Butte Hebgen Park	131	196	196	85	10	
	Butte Tierney Res.	192	225	225	82	10	
	Sil. Bow Co. Microwave	75	83	83	42	10	
	Jefferson Co. 212 E. Pacific	57	89	89	38	10	
	East Helena Cogswell Bldg.	149	181	181	84	10	
	Helena	75	211	211	60	10	
143	Lindsay						
	Dawson Co. Lame Deer	68	208	208	47	10	
	Rosebud Co. BN Site	27	143	142	19	10	
	Colstrip	----------	----------	**	----------	----------	
	McKee Site Colstrip	----------	----------	**	----------	----------	
	Border Site Scobey	26	68	68	21	10	

**-Site no longer in operation

Pollutant: Total Suspended Particulate Units micrograms/m^3

AQCR	Site Location	HIGH READING: Current Month	Year-to-Date	Running Year	ARITHMETIC AVER.: Year-to-Date	No. of Mons. of Data	Comments
144	Anders Res.						
	Col. Falls NAAC	484	484	484	158	10	2 exc. Fed. Pri. Std.
	Col. Falls Ronan	49	63	63	28	10	
	Lake Co. Polson	406	311	311	179	10	1 exc. Fed. Pri. Std.
	Lake Co. Libby-Brown	202	202	202	116	10	1 exc. Fed. Sec. Std.
	Lincoln Co. Kalispell-Stron	207	610	610	192	10	
	Flathead Co. Kalispell Airport	----------	----------	***	----------	----------	
	Flathead Co. Big Fork	140	140	140	62	9	1 exc. Fed. Sec. Std.
	Flathead Co. Courthouse Roof	57	103	103	46	4	
	Missoula Lion's Park	126.5	267	267	88.3	10	
	Missoula Rose Park	179.2	419.4	419.4	95.5	10	2 exc. Fed. Sec. Std.
	Missoula Hoerner-Waldorf	97.2	112	112	89.9	10	
	#1, Missoula Co. Hoerner-Waldorf	117.2	118	118	45.8	10	
	#2, Missoula Co.	139.6	157.7	157.7	48.5	4	

***-no samples submitted

Pollutant: Respirable Particulate- Dichotomous Sampler Units: micrograms/m^3

AQCR	Site Location	HIGH READING: Current Month	Year-to-Date	Running Year	ARITHMETIC AVER.: Year-to-Date	No. of Mons. of Data	Comments
140	Central Park						
	Billings fine						
	coarse						
141	Kiwanis Park						
	Great Falls fine						
	coarse						
142	Lincoln School						
	Anaconda fine						
	coarse						
	Hebgen Park						
	Butte fine	DATA UNAVAILABLE BECAUSE OF QA HOLD UP					
	coarse						
	Floral Park						
	Butte fine						
	coarse						
143	Border Site						
	Scobey fine						
	coarse						
144	Lions Park						
	Missoula fine						
	coarse						
	Courthouse Roof						
	Missoula fine						
	coarse						
	Kalispell Airport						
	Flathead Co. fine						
	coarse						

MONTANA DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES

MONTHLY SUMMARY OF AIR QUALITY DATA

October, 1979

Pollutant: Miscellaneous Continuous Data Units: ppm

AQCR	AREA Site Location	HIGH READING Current Month	Year-to-Date	Running Year	ARITHMETIC AVER. Year-to-Date	No. of Mons. of Data	Comments
	Carbon Monoxide						
142	Alpine West Butte						
	Lincoln School Anaconda						
144	Lion's Park Missoula						
	Hydrocarbon						
142	Hebgen Park Butte						
	Lincoln School Anaconda						
	Lion's Park Missoula	3.63	3.63	3.63	1.89	10	
	Ozone						
140	Central Park Billings	0.060	0.145	0.145	0.026	10	
142	Lincoln School Anaconda						
	Hebgen Park Butte						
144	Lion's Park Missoula	0.063	0.075	0.075	0.027	10	

Pollutant: Miscellaneous Units: ppm

AQCR	AREA Site Location	HIGH READING Current Month	Year-to-Date	Running Year	ARITHMETIC AVER. Year-to-Date	No. of Mons. of Data	Comments
	Nitrogen Oloxide						
140	Central Park Billings	0.076	0.110	0.110	0.016	3	
142	Lincoln School Anaconda						
	Hebgen Park Butte						
144	Lion's Park Missoula	0.085	0.085	0.085	0.016	10	
	Sulfur Oloxide						
140	Central Park Billings						
	Lockwood School Billings	0.227	0.350	0.350	0.015	10	
	Laurel Farm Laurel	0.08	0.74	0.74	0.030	10	
142	Hiway Jct, Anaconda						
	Mill Creek Anaconda						
	Lincoln School Anaconda						
	Hebgen Park Butte						
	Microwave						
	Jefferson Co.	0.12	0.17	0.17	0.0	10	
	Broudy Ranch Jefferson Co.	0.19	0.19	0.19	0.0	10	
143	Border Site Scobey	0.006	0.006	0.006	0.0	1	

*Data unavailable at time of report

Pollutant: Miscellaneous Indicators Units:

AQCR	AREA Site Location	HIGH READING Current Month	Year-to-Date	Running Year	ARITHMETIC AVER. Year-to-Date	No. of Mons. of Data	Comments
	Dustfall-tons/sq. mile						
141	Mountain States Great Falls						
	Fire Sta. #1 Great Falls						
	Sulfation Rate-mg/100 sq. cm						
140	West Cenex Billings						
	Farm E of Cenex Billings						
141	Stock Car Track Great Falls						
	Phillips Ref. N1 Great Falls						
	Phillips Ref. E Great Falls						
142	Microwave East Helena 212 E. Pacific East Helena	0.18	0.56	0.56	0.22	8	
	East Stack Sta. East Helena	0.26	0.37	0.37	0.24	10	
	Broudy Ranch East Helena 2580 Prickley Pear East Helena	0.33	0.47	0.47	0.25	9	
	Grant Kohrs C. Powell Co.	0.08	0.27	0.27	0.116	10	
		0.19	0.37	0.37	0.17	10	

Pollutants: Miscellaneous Indicators Units:

AQCR	AREA Site Location	HIGH READING Current Month	Year-to-Date	Running Year	ARITHMETIC AVER. Year-to-Date	No. of Mons. of Data	Comments
	Fluoride Papers - mg/sq dm/30 days						
144	Denton's Mt. Box Flathead Co.	0.45	1.20	1.20	0.78	10	
	Anaconda South Flathead Co.	2.67	11.42	11.42	4.79	10	
	Glac. Park #1 Glac. Nat. Park	0.23	0.69	0.69	0.35	9	
	Glac. Park #9 Glac. Nat. Park	0.27	0.37	0.37	0.28	9	
	Fluoride Plates-mg/sq cm/30 days						
144	Anaconda South Flathead Co.	3.00	26.22	26.22	7.30	10	
	Trailer-NARC Flathead Co.	0.57	1.73	1.73	1.16	10	
	Glacier Park #1 Glac.Nat.Park						
	Glacier Park #9 Glac.Nat.Park						